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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,980	11/20/2003	Josef Bille	11270.39	2732
75	90 03/09/2005		EXAMINER	
NEIL K. NYDEGGER			JOHNSON III, HENRY M	
NYDEGGER &	ASSOCIATES	•		
348 OLIVE STREET			ART UNIT	PAPER NUMBER
SAN DIEGO, CA 92103			3739	

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Comment	10/718,980	BILLE, JOSEF			
Office Action Summary	Examiner	Art Unit			
	Henry M Johnson, III	3739			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 12 Ju	ily 2004.				
2a) ☐ This action is FINAL. 2b) ☒ This	action is non-final.				
3) Since this application is in condition for allowar closed in accordance with the practice under E	·				
Disposition of Claims					
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) 11-20 is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>12 July 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage			
* See the attached detailed Office action for a list	or the certified copies not receive	ea.			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) Interview Summary				
2)	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PTO-152)			
Paper No(s)/Mail Date <u>032104</u> .	6) Other:				

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: on page 10, line 26, the examiner believes the sentence was intended to begin It happens, not In happens.

Appropriate correction is required.

Claim Objections

Claim 4 is objected to because of the following informalities: the claim has no structure for movement of the illumination thus doe not further limit the base claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S.

Patent 6,210,401 to Lai. Lai discloses a method and apparatus for corneal surgery with means for detecting eye movement during an operation that is corrected for by a corresponding compensation in the location of the surgical beam. Beam operation is terminated if the laser parameters or the eye positioning is outside of a predetermined tolerable range. The surgical system can be used to perform surgical procedures including removal of corneal scar, making incisions, comea transplants, and to correct myopia, hyperopia, astigmatism, and other corneal surface profile defects (abstract). An eye tracking system is provided with its own feedback

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control system to adjust the positions of the steering mirrors and the dove prism to compensate for detected relative motion of the eye with respect to the surgical laser beam. Alternatively, the eye tracking system may be coupled to a computer control unit (Col. 19, lines 20-25). The mirrors and prism are interpreted as an optical means and confocal arrangement. The movement of the optical axis is an intended use. The guide light provides illumination (Fig. 1, # 132). A scanning laser (Fig. 1, # 104) and optics (Fig. 1, # 106) are disclosed.

Regarding claim 2, the confocal means may detect eye movement due to heartbeat and respiration.

Regarding claim 4, any light source is potentially moveable. With no specific structure cited to provide the movement, there is no further limitation to the base claim.

Regarding claim 6, the confocal arrangement and computer are capable of verifying the alignment position.

Regarding claim 10, Lai discloses pulse rates of from 100 to 5000 pulses per second, thus is capable of providing 1500 pulses in a period of .12 seconds (latency time).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c)

and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,210,401 to Lai as applied to claim 1 above and further in view of U.S. Patent 6,666,857 to Smith. Lai is discussed above, but does not disclose use of wavefront techniques. Smith teaches wavefront directed photoablation (Title). The topography is clearly capable of identifying a base point. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the wavefront analyzer of Smith in the invention of Lai as an alternative means for detecting the optical axis.

Allowable Subject Matter

Claims 11-20 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 6,585,723 to Sumiya teaches the use of confocal arrangements in corneal surgery. U.S. Patent 5,549,632 to Lai discloses eye motion induced by pulse (heartbeat) and respiration.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry M Johnson, III whose telephone number is (571) 272-4768. The examiner can normally be reached on Monday through Friday from 6:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry M. Johnson, III

Patent Examiner Art Unit 3739